

1. Write the word True or False for the following statements.

1	False	1. If you cut yourself, rinse the cut with hot water.
2	True	2. If you burn yourself, immediately run cold water over the burned area and inform your teacher.
3	True	3. Always follow your teacher's directions for cleanup and disposal of chemicals
4	True	4. Safety glasses are to be worn at all times in the laboratory.
5	True	5. The proper technique for smelling a substance is to waft the odour as you hold the container near your nose.
6	True	6. Students should wash their hands thoroughly with soap and water before leaving the lab.
7	True	7. DO NOT eat, or drink in the laboratory. Chewing gum or candy is acceptable.
8	False	8. Only taste substances that you have been instructed to taste in the laboratory.
9	False	9. If the Bunsen burner doesn't appear to be working properly, look down the barrel of the burner to see if the flame is coming up the barrel part way.
10	True	10. Most fire extinguishers in schools are class ABC fire extinguishers.

2. Do the following metric conversions. Be sure to show some work for questions that are worth more than one point.

a. $5.89 \mu\text{L} =$ _____ L

$$5.89 \times 10^{-6} \text{ L} \quad 5.89 \mu\text{L} \times \frac{1 \text{ L}}{10^6 \mu\text{L}}$$

b. $3.3 \times 10^{-17} \text{ Mm} =$ _____ mm

$$3.3 \times 10^{-17} \text{ Mm} \times \frac{10 \text{ m}}{1 \text{ Mm}} \times \frac{10^3 \text{ mm}}{1 \text{ m}} = 3.3 \times 10^{-26} \text{ mm}$$

c. $46 \text{ mmol} =$ _____ kmol

$$46 \text{ mmol} \times \frac{1 \text{ mol}}{10^3 \text{ mmol}} \times \frac{1 \text{ kmol}}{10^3 \text{ mol}} = 4.6 \times 10^{-5} \text{ kmol}$$

d. $8.2 \times 10^{-36} \text{ g} =$ _____ ng

$$8.2 \times 10^{-36} \text{ g} \times \frac{10^9 \text{ ng}}{1 \text{ g}} = 8.2 \times 10^{-27} \text{ ng}$$

e. $55 \text{ dm} =$ _____ cm

$$55 \text{ dm} \times \frac{1 \text{ m}}{10 \text{ dm}} \times \frac{10^2 \text{ cm}}{1 \text{ m}} = 5.5 \times 10^1 \times 10^2$$

$$= 5.5 \times 10^3 \text{ cm}$$

$$= 5.5 \times 10^2 \text{ cm}$$